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1 Service infastructure and network management: Architecture and techniques for diagnosing faults in IEEE 802.11 infrastructure networks
Atul Adya, Paramvir Bahl, Ranveer Chandra, Lili Qiu
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking MobiCom '04**
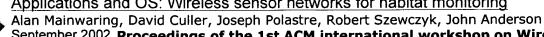**Publisher:** ACM Press

Full text available: 📄 pdf(303.82 KB)   Additional Information: full citation, abstract, references, citings, index terms

The wide-scale deployment of IEEE 802.11 wireless networks has generated significant challenges for Information Technology (IT) departments in corporations. Users frequently complain about connectivity and performance problems, and network administrators are expected to diagnose these problems while managing corporate security and coverage. Their task is particularly difficult due to the unreliable nature of the wireless medium and a lack of intelligent diagnostic tools for determining the cause ...

Keywords: IEEE 802.11, disconnected clients, fault detection, fault diagnosis, infrastructure wireless networks, rogue APs

2 Applications and OS: Wireless sensor networks for habitat monitoring
Alan Mainwaring, David Culler, Joseph Polastre, Robert Szewczyk, John Anderson
September 2002 **Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications WSNA '02**
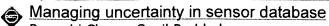**Publisher:** ACM Press

Full text available: 📄 pdf(542.04 KB)   Additional Information: full citation, abstract, references, citings, index terms

We provide an in-depth study of applying wireless sensor networks to real-world habitat monitoring. A set of system design requirements are developed that cover the hardware design of the nodes, the design of the sensor network, and the capabilities for remote data access and management. A system architecture is proposed to address these requirements for habitat monitoring in general, and an instance of the architecture for monitoring seabird nesting environment and behavior is presented. The cu ...

Keywords: environmental monitoring, habitat monitoring, low power systems, sensor network architecture, wireless sensor networks

3 Special section on sensor network technology and sensor data managment: Managing uncertainty in sensor database
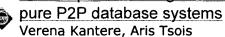Reynold Cheng, Sunil Prabhakar
December 2003 **ACM SIGMOD Record**, Volume 32 Issue 4
Publisher: ACM Press
Full text available: pdf(109.50 KB)   Additional Information: full citation, abstract, references, citings

Sensors are often employed to monitor continuously changing entities like locations of moving objects and temperature. The sensor readings are reported to a centralized database system, and are subsequently used to answer queries. Due to continuous changes in these values and limited resources (e.g., network bandwidth and battery power), the database may not be able to keep track of the actual values of the entities, and use the old values instead. Queries that use these old values may produce i ...

4 Mobile queries: Using ECA rules to implement mobile query agents for fast-evolving pure P2P database systems
Verena Kantere, Aris Tsois
May 2005 **Proceedings of the 6th international conference on Mobile data management MDM '05**
Publisher: ACM Press
Full text available: pdf(144.28 KB)   Additional Information: full citation, abstract, references, citings, index terms

A challenging issue in fast-evolving pure P2P networks is the design of an appropriate mechanism for processing queries. Since both the data content of the peers as well as their acquaintances, change rapidly the typical P2P querying techniques become inappropriate. We are interested in P2P networks where peers are mobile and own a database. In this dynamic context the usage of a Mobile Agent framework appears very promising. The paper investigates the issues related to the above problem and pro ...

Keywords: ECA model, P2P systems, mobile agents, mobile databases

5 Distributed data sources: Supporting spatial aggregation in sensor network databases
Mehdi Sharifzadeh, Cyrus Shahabi
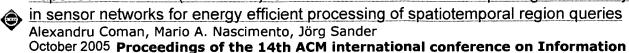November 2004 **Proceedings of the 12th annual ACM international workshop on Geographic information systems GIS '04**
Publisher: ACM Press
Full text available: pdf(347.96 KB)   Additional Information: full citation, abstract, references, citings, index terms

Sensor networks are unattended deeply distributed systems whose schema can be conceptualized using the relational model. Aggregation queries on the data sampled at each sensor node are the main means to extract the abstract characteristics of the surrounding environment. However, the non-uniform distribution of the sensor nodes in the environment leads to inaccurate results generated by the aggregation queries. In this paper, we introduce "spatial aggregations" that take into consideration th ...

Keywords: aggregation, sensor networks, spatial data stream, spatial interpolation, voronoi cell

6 Paper session DB-3 (databases): sensors and data streams: Exploiting redundancy in sensor networks for energy efficient processing of spatiotemporal region queries
Alexandru Coman, Mario A. Nascimento, Jörg Sander
October 2005 **Proceedings of the 14th ACM international conference on Information**

and knowledge management CIKM '05

Publisher: ACM Press

Full text available: pdf(225.16 KB)   Additional Information: full citation, abstract, references, index terms

Sensor networks are made of autonomous devices that are able to collect, store, process and share data with other devices. Spatiotemporal region queries can be used for retrieving information of interest from such networks. Such queries require the answers only from the subset of the network nodes that fall into the query region. If the network is redundant in the sense that the measurements of some nodes can be substituted by those of other nodes with a certain degree of confidence, then a much ...

Keywords: sensor networks, spatiotemporal region query processing

7 DataSpace—querying and monitoring deeply networked collections in physical space

Tomasz Imieliński, Samir Goel

August 1999 **Proceedings of the 1st ACM international workshop on Data engineering for wireless and mobile access MobiDe '99**

Publisher: ACM Press

Full text available: pdf(904.69 KB)   Additional Information: full citation, references, citings, index terms

8 Moving objects: Evaluation of probabilistic queries in moving objects databases

Talel Abdessalem, Laurent Decreusefond, José Moreira

June 2006 **Proceedings of the 5th ACM international workshop on Data engineering for wireless and mobile access MobiDE '06**
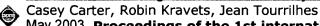
Publisher: ACM Press

Full text available: pdf(345.79 KB)   Additional Information: full citation, abstract, references, index terms

The representation of moving objects in spatial database systems has become an important research topic in recent years. As it is not realistic to track and store the location of objects at every time instant, one of the issues in this domain has to do with handling uncertainty in the location of moving objects. In this paper, we propose three statistical methods for computing probabilistic estimates about the location of a moving object at a certain time and show how to use them for evaluating ...

Keywords: moving objects, spatio-temporal databases, spatio-temporal uncertainty

9 Contact networking: a localized mobility system

Casey Carter, Robin Kravets, Jean Tourrilhes

May 2003 **Proceedings of the 1st international conference on Mobile systems, applications and services MobiSys '03**

Publisher: ACM Press

Full text available: pdf(232.79 KB)   Additional Information: full citation, abstract, references, cited by, index terms

MobileIP, the standard for Internet mobility, enables transparent mobility for a mobile node, but requires communication to take a multihop path through the node's Home Agent. Although a user with a multiple-interface mobile node may desire the ability to communicate locally, perhaps while disconnected from the Internet, MobileIP offers no such support.Contact Networking provides lightweight, localized network communication to a node with diverse network interfaces. The goal is to provide suppor ...

10 UTIS (Urban Transportation Information System) a geo-spatial transport database

Adam Etches, David Parker, Sean Ince, Philip James

November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems GIS '00**
Publisher: ACM Press
Full text available: pdf(677.50 KB)   Additional Information: full citation, abstract, index terms

This paper proposes the design of an extended DBMS as required for integrated management of urban transportation systems. We introduce an extended `lowest common denominator' database model that supports a wide and varied range of urban transport tasks, which include management, simulation and planning. This paper is the result of research being carried out and is formulated by database expertise and transport knowledge. There has been a full analysis of transport data objects and attributes. ...

Keywords: temporal spatial informaton, transport system

11 Emerging mobile and wireless networks
Upkar Varshney, Ron Vetter
June 2000 **Communications of the ACM**, Volume 43 Issue 6
Publisher: ACM Press
Full text available: pdf(609.43 KB)   Additional Information: full citation, references, citings, index terms,
html(36.15 KB)   review

12 Locating nearby copies of replicated Internet servers
James D. Guyton, Michael F. Schwartz
October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4
Publisher: ACM Press

Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, references, citings, index
terms

In this paper we consider the problem of choosing among a collection of replicated servers, focusing on the question of how to make choices that segregate client/server traffic according to network topology. We explore the cost and effectiveness of a variety of approaches, ranging from those requiring routing layer support (e.g., anycast) to those that build location databases using application-level probe tools like traceroute. We uncover a number of tradeoffs between effectiveness, network cos ...

13 Sensor networks: Spatial queries in sensor networks
Amir Soheili, Vana Kalogeraki, Dimitrios Gunopulos
November 2005 **Proceedings of the 13th annual ACM international workshop on Geographic information systems GIS '05**
Publisher: ACM Press
Full text available: pdf(353.17 KB)   Additional Information: full citation, abstract, references, index terms

Recent advances in low-power sensing devices coupled with the widespread availability of wireless ad-hoc networks have fueled the development of sensor networks. These are typically deployed over wide areas to gather data in the environment and monitor events of interest. The ability to run spatial queries is extremely useful for sensor networks. Spatial query execution has been extensively studied in the context of centralized spatial databases; however because of the energy and bandwidth limit ...

Keywords: sensor networks, spatial indices, spatial queries

14 A framework for network quality monitoring in the VoIP environment

Ana Flàvia M. de Lima, Leandro S. G. de Carvalho, José Neuman de Souza, Edjair de Souza Mota

July 2007 **International Journal of Network Management**, Volume 17 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: 📄 pdf(233.90 KB)   Additional Information: full citation, abstract, references, index terms

> Monitoring speech quality in Voice over IP (VoIP) networks is important to ensure a minimal acceptable level of speech quality for IP calls running through a managed network. Information such as packet loss, codec type, jitter, end-to-end delay and overall speech quality enables the network manager to verify and accurately tune parameters in order to adjust network problems. The present article proposes the deployment of a monitoring architecture that collects, stores and displays speech qual ...

15 Pervasive healthcare and wireless health monitoring

Upkar Varshney

March 2007 **Mobile Networks and Applications**, Volume 12 Issue 2-3

Publisher: Kluwer Academic Publishers

Full text available: 📄 pdf(597.90 KB)   Additional Information: full citation, abstract, references, index terms

> With an increasingly mobile society and the worldwide deployment of mobile and wireless networks, the wireless infrastructure can support many current and emerging healthcare applications. This could fulfill the vision of "Pervasive Healthcare" or healthcare to anyone, anytime, and anywhere by removing locational, time and other restraints while increasing both the coverage and the quality. In this paper, we present applications and requirements of pervasive healthcare, wireless networking so ...
>
> **Keywords**: ad hoc wireless networks, healthcare applications, location management, mobile and wireless networks, pervasive

16 Monitoring data archives for grid environments

Jason Lee, Dan Gunter, Martin Stoufer, Brian Tierney

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing Supercomputing '02**

Publisher: IEEE Computer Society Press

Full text available: 📄 pdf(107.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Developers and users of high-performance distributed systems often observe performance problems such as unexpectedly low throughput or high latency. To determine the source of these performance problems, detailed end-to-end monitoring data from applications, networks, operating systems, and hardware must be correlated across time and space. Researchers need to be able to view and compare this very detailed monitoring data from a variety of angles. To address this problem, we propose a relational ...

17 Programming ad-hoc networks of mobile and resource-constrained devices

Yang Ni, Ulrich Kremer, Adrian Stere, Liviu Iftode

June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation PLDI '05**, Volume 40 Issue 6

Publisher: ACM Press

Full text available: 📄 pdf(391.82 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Ad-hoc networks of mobile devices such as smart phones and PDAs represent a new and exciting distributed system architecture. Building distributed applications on such an

architecture poses new design challenges in programming models, languages, compilers, and runtime systems. This paper discusses SpatialViews, a high-level language designed for programming mobile devices connected through a wireless ad-hoc network. SpatialViews allows specification of virtual networks with nodes providing desir ...

Keywords: MANET, ad-hoc networks, location-awareness, quality of result, service discovery

18 Dynamically adapting registration areas to user mobility and call patterns for efficient ■
location management in PCS networks
Georgios Varsamopoulos, Sandeep K. S. Gupta
October 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 5
Publisher: IEEE Press

Full text available: pdf(900.69 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we propose an extension to the personal communication services (PCS) location management protocol which uses dynamically overlapped registration areas. The scheme is based on monitoring the aggregate mobility and call pattern of the users during each reconfiguration period and adapting to the mobility and call patterns by either expanding or shrinking registration areas at the end of each reconfiguration period. We analytically characterize the trade-off resulting from the incl ...

Keywords: adaptive protocol, cellular network, distributed algorithm, distributed load balancing, distributed location management, dynamic optimization, mobile communication network

19 A probe-based monitoring scheme for an object-oriented distributed operating system ■
Partha Dasgupta
June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPLSA '86**, Volume 21 Issue 11
Publisher: ACM Press
Full text available: pdf(762.64 KB)   Additional Information: full citation, references, citings, index terms

20 Applying deductive database technology to network management ■
Nalin Sharda, Refyul Fatri, Mohammad Abid
January 1997 **ACM SIGCOMM Computer Communication Review**, Volume 27 Issue 1
Publisher: ACM Press
Full text available: pdf(1.04 MB)   Additional Information: full citation, abstract, index terms

Network Management is essential for successful operation of any communications network. Due to the complexity of modern networks, their management requires application of artificial intelligence based techniques. Two essential aspects of any Network Management system are, a large volume of data, and rules applied to this data. Deductive database systems cater for both. In this paper we examine the suitability of deductive database systems for Network Management application. Fundamentals of Netwo ...

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18. Application of Neural Network and Wavelet Analysis in Monitoring Multiι
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